

Product datasheet for **RG209874**

NIPAL1 (NM_207330) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NIPAL1 (NM_207330) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NIPAL1
Synonyms:	NPAL1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG209874 representing NM_207330 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGGCACAGGTGAGGCTGCCGCCGGAGAGCCCTGCCGAGAAGGATATGTGCTGTCTCTGGTCTGTC
CAAACCTCTCCAGGCTTGGTGTGAGATCACAAATGTGTCACAGCTGCTGGCTTCTCCTGTGCTCTACAC
GGACCTGAATTACAGCATAAACTTGGAGCATTTCAGCAAATGTAGAAAACAAATACAGCTTTTATGTG
GGCTTGGTACTGGCAGTAAGCTCAAGTATTTTTATTGGCTCCAGCTTCATACTGAAAAGAAGGGCCTCT
TGCAACTGGCCAGCAAGGCTTTACTAGAGCTGGACAAGGTGGACATTCTTACCTGAAGGAATGGCTCTG
GTGGGTAGGATTGCTGTCAATGGGAGCAGGAGAGGCTGCAAATTTGCTGCTTATGCTTTTGACCTGCC
ACCTTGGTCACCCCTCTGGGTGCTTTGAGTGTTCTCATAAGTGCAATATTATCTTCTACTTTTTAAACG
AGCACTTGAACATTATGGGAAAATAGGCTGCATATTAAGTATATTGGGGTCAACTGTGATGGTTATCCA
TGCCCCACAAGAAGAGGAAGTCACATCTTTGCATGAAATGGAAATGAAATGAGAGACCCAGGTTTATT
TCCTTTGCTGTGATCATAACTGTGATCTCCTTGGTGTGATTTTGATTGTGGCTCCCAAGAAAGGACAGA
CCAATATATTGGTTTATATTTCAATCTGTTCTTGGTGGAGCGTTTTTCAGTTTCTTCTGTGAAAGGCT
GGGAATTGCCATTAAGGAGCTGATAGAATGGAAGCCAGTTTACAACATCCGCTGGTCTTTGTTTTGCTG
GCTGTACTTGTGCTTTTCAGTAACTACACAGATTAACATCTCAACAAGGCACTGGACACCTTTAATACCT
CTTTGTGACACCCATTTATTATGTATTCTTACATCCATGGTAGTGACTTGCTCTGCCATCTTATTCCA
AGAGTGGTATGGCATGACAGCTGGAGATATCATTGGGACCCTGAGTGGATTCTTCACTATTATCATTGGC
ATCTTCTTCTACATGCTTTAAAAAATACTGACATTACTTGGAGTGGAGCTTACATCCACTGCTAAGAAA
AAGCCGCTCTCTGAATGTCAATGAAAACAATTATGTTTTACTAGAGAATTGGAGTGTTTCCAGCCCCAGG
ATACAATGATGACGTTACCTTGTTAGTAGAACTGATGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG209874 representing NM_207330
 Red=Cloning site Green=Tags(s)

MGAQVRLPPGEPCREGYVLSLVCNNSQAWCEITNVSQLLASPVLYTDLNYSINNLISANVENKYSLYV
 GLVLAVSSSIFIGSSFILKKKGLLQLASKGFTRAGQGGHYSYLKEWLWWVGLLSMGAGEAANFAAYAFAPA
 TLVTPLGALSVLISAILSSYFLNEHLNIHGKIGCILSILGSTVMVIHAPQEEEVTSHEMEMKLRDPGFI
 SFAVIITVIVSLVILIVAPKKGQTNILVYISICSLIGAFSVSSVKGLGIAIKELIEWKPVYKHLV FVLL
 AVLVLSVTTQINYLKALDFTNTSLVTPIYYVFFTSMVVTC SAILFQEWYGMTAGDIIGT LSGFFTIIIG
 IFLLHAFKNTDITWSEL TSTAKKEAVSLNVNENNYV LLENLECSAPGYND DVTLF SRTDD

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_207330

ORF Size: 1230 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_207330.3](#)

RefSeq Size: 2204 bp

RefSeq ORF: 1233 bp

Locus ID: 152519

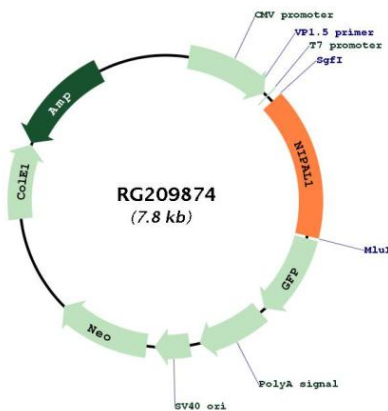
UniProt ID: [Q6NVV3](#)

Cytogenetics: 4p12

Protein Families: Transmembrane

Gene Summary: Acts as a Mg(2+) transporter. Can also transport other divalent cations such as Fe(2+), Sr(2+), Ba(2+), Mn(2+), Cu(2+) and Co(2+) but to a much less extent than Mg(2+) (By similarity).
[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG209874